



BR5 BACKREFLECTION METER

The BR5 Backreflection Meter is a user-friendly instrument developed with extremely stable optics for precise measurement of backreflection, insertion loss and power. The BR5 features up to four built-in laser sources at wavelengths of 850, 1310, 1490, 1550 and 1625 nm (depending on fiber type).

An intuitive display and keypad, with one-button access to BR and IL modes, simplifies the collection and management of measurement data. Available in single-mode and multimode, the BR5 is ideal for measurements of connectors, components, and systems.

The BR5 achieves ultra-stable backreflection measurements at very low values. Accuracy is typically ± 0.4 dB and measurement sensitivity is to -80 dB. Insertion loss relative accuracy is ± 0.05 dB.

SPECIFICATIONS

Parameter	Specification	
	Single-mode	Multimode
Fiber Type	(9/125 μm)	(50/125 or 62.5/125 μm)
Operating Wavelengths	1310, 1490, 1550, 1625, ± 10 nm	850, 1310, ± 20 nm
Backreflection Range	0 to -80 dB	0 to -60 dB
Backreflection Accuracy ¹	± 0.4 dB	
Detector Type	2 mm InGaAs or 5mm Ge	5mm Ge
Power Range	0 to -80 dBm (InGaAs) 0 to -60 dBm (Ge)	
Absolute Power Accuracy ²	± 0.25 dB	
Relative Power Accuracy	± 0.05 dB (< 5 dB loss) ± 0.15 dB (> 5 dB loss)	± 0.15 dB
Remote Interface	RS232 and GPIB	
Input Voltage	100 - 240 V AC, 50 - 60 Hz	
Power Consumption	30 VA maximum	
Display	16 character LCD	

1. Add 0.1 dB to the spec for every 1 dB below -60 dB.

2. Measured at -10 dBm.

Mechanical/Environmental Specifications

Parameter	Specification
Dimensions (W x H x D)	26 x 11 x 26 cm
Weight	4 kg
Operating Temperature	0 to 40 °C
Storage Temperature	-40 to 70 °C
Humidity	Maximum 95% RH from 0 to 40 °C

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ORDERING INFORMATION

Choose one characteristic from each column and assemble the part number. Up to four lasers may be selected for the single-mode version. The standard multimode version contains two lasers at 850 and 1310 nm. Other wavelengths are available upon request. (sample: BR5-3050-2-09FA)

Single-Mode Version

BR5---09FA

LASER 1	
No Laser	0
1310 nm	3

LASER 3	
No Laser	0
1550 nm	5

DETECTOR TYPE	
2 mm InGaAs	2
5 mm Ge	5

LASER 2	
No Laser	0
1490 nm	4

LASER 4	
No Laser	0
1625 nm	6

Multimode Version

BR5-8300-5-FA

FIBER TYPE	
50/125 μ m	50
62.5/125 μ m	62

CONTACT US

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